UNDERGROUND SPACE

Index, Volume 7 **July 1982–June 1983**

This cumulative index of feature articles and research papers appearing in *Underground Space*, Volume 7, July 1982–June 1983, is arranged in the following categories.

I. General Articles
II. Tunnels and Deep Space
III. Earth Shelter and Architecture
IV. Planning, Development, and Public Policy

I. General Articles

Bergman, S. M. Man's future underground depends on cooperation between engineers and policymakers (editorial); 7:4–5(233).

Bergman, S. M. Postscript (U.N. Workshop), 7:4–5(317).

Bordia, O., and Bjurström, S. Subsurface energy production, storage, and distribution; 7:4–5(273–274).

Carmody, J., and Derr, D. The use of underground space in the People's Republic of China; 7:1(7–15).

Conclusions of the U.N. Workshop report; 7:4–5(316).

Dahl, B. Opening address; 7:4–5(239).

Fairhurst, C. The engineer's vision can solve our infrastructure woes (editorial); 7:3(141).

Fairhurst, C. United we stand (editorial); 7:6(329).

Fano, E. Introductory remarks; 7:4–5(240–242).

Forsse, A. Keynote address; 7:4–5(243–244).

Girnau, G., and Bergman, S. M. United Nations, International Tunnelling Association look toward cooperation in subsurface development (interview); 7:4–5(234–237).

Harlaut, A., and Isgaard, E. Underground public utility systems: why and where?; 7:4–5(306–307).

Lemley, J. K. The growth of the ITA signals changes in the world of tunneling (editorial); 7:3(142).

van Lohuizen, H. P. S. Holland's water table, geology spur innovation in underground engineering (interview); 7:6(335–338).

van Lohuizen, H. P. S. The lifelines of our cities: subsurface transport systems; 7:4–5(300–305).

Muir Wood, A. M. Successful civic development will rely on the subsurface (editorial); 7:2(75).

O'Rourke, T. D. Problems of size and complexity in urban underground projects; 7:3(182–186).

Sterling, R. L. Underground development in China (editorial); 7:1(2).

Zhu, D. The upsurge in China's use of underground space (editorial); 7:1(3).

II. Tunnels and Deep Space

Baker, W. H., Cording, E. J., and MacPherson, H. H. Compaction grouting to control ground movements during tunneling; 7:3(205–212).

Barbier, M. Using subsurface space for transportation in developing countries: meeting demands and objectives; 7:4–5(288–290).

Berk, B., Hurwitch, J. W., and Schuller, C. R. CAES and UPH technologies: an uncertain future; 7:6(342–346).

Broch, E., and Ødegaard, L. Storing water in rock caverns; 7:4–5(269–272).

Cording, E. J. USNC/TT moves forward in its program to improve underground construction (interview); 7:3(152–154).

Dalton, F. E. Chicago's TARP: solving a problem, once and for all; 7:3(193–198).

Fairhurst, C., and Sterling, R. Subsurface storage of food, 7:4–5(249–250).

Franzén, T. Shotcrete: no miracle-worker but a good support in tunneling; 7:3(150–151).

Freeman, S., Hamburger, E., Lachel, D. J., Mayo, R. S., Merritt, J. L., and Smith, B. L. Tunneling in the People's Republic of China; 7:1(24–30).

Gillis, D. C. UPH and CAES: Underground energy storage systems; 7:6(339–341).

Girnau, G. Cost-benefit evaluation for subways in developing countries; 7:4–5(291–297).

Girnau, G., and Bergman, S. M. Subsurface transportation systems; 7:4–5(286–287).

Halberg, N., van der Kolff, A. N., and Price, D. G. An underground energy storage system for the Netherlands; 7:6(353–361).

Ilsley, R. C., and Costello, M. J. Discontinuity characterization for underground openings in the Milwaukee Water Pollution Abatement Program; 7:3(214–220).

Jansson, G. Underground storage of oil and gas; 7:4–5(275–277).

Kelsall, P. Factors influencing the costs of underground storage in mined caverns; 7:1(31–35).

Kuesel, T. R. On hard rock and hard progress; 7:3(156–160).

Lane, K. S. What happened to innovation in U.S. tunneling?; 7:3(161–165).

Larsson, I. Subsurface storage of water in fractured hard rock; 7:4–5(267–268).

Lemley, J., and van Lohuizen, H. P. S. Subsurface utility systems; 7:4–5(298–299).

Michanek, E., and Brock, E. Subsurface storage of water; 7:4–5(263).

Möller, A. Underground storage of water; 7:4–5(264–266).

Parker, H. W., and Robinson, R. A. The world's largest-diameter soil tunnel; 7:3(175–181).

Sterling, R. L., Meixel, G. D., Dunkel, F., and Fairhurst, C. Underground storage of food; 7:4–5(257–262).

Warnock, J. G. Underground production, storage, and distribution of electricity; 7:4–5(278–282).

Willett, D. C., and Warnock, J. G. Underground pumped hydroelectric energy storage: an ultimate underground opportunity; 7:6(347–352).

III. Earth Shelter and Architecture

Baggs, S. A. Remote prediction of periodic ground temperatures in Australia using isothermal contour maps; 7:2(127–132).

Kim, H. G., and Sterling, R. L. Integrating earth-sheltered housing into the Korean terrain and tradition; 7:6(381–386).

Kint, J., and van Hove, L. The sociology and psychology of subway architecture; 7:2(124–126).

Lindblom, U. E. Underground thermal storage techniques for developing countries; 7:4–5(283–285).

Labs, K. Regional analysis of ground and above-ground climate: conclusion; 7:1(37–65).

Raab, R. Building codes and zoning ordinances affecting earth-sheltered housing in New York State; 7:2(110–114).

Shapira, H. B., Cristy, G. A., Brite, S. E., and Yost, M. B. Cost and energy comparison study of above- and below-ground dwellings; 7:6(362–371).

Underground Space, Vol. 7, pp. 397–398, 1983.

Printed in the U.S.A. All rights reserved.

0362-0565/83 $3.00 + .00

Copyright © 1983 Pergamon Press Ltd.

Swenson, M. G. An economic test for earth-sheltered design; 7:2(105–109).
Wendt, R. L. The energy conservation potential of earth-sheltered housing; 7:6(372–380).

IV. Planning, Development, and Public Policy

Backman, E. Notes on financing subsurface projects in developing countries; 7:4–5(315).
Barker, M., and Jansson, B. Cities of the future and planning for subsurface utilization; 7:2(82–85).
Eriksson, L. G. Geoplanning for underground space; 7:6(387–392).
Jansson, B. Planning for subsurface space use in developing countries; 7:4–5(311–314).
Labs, K. Human comfort and underground climate control; 7:2(115–123).
Legget, R. Urban planning and geology: progress in mapping (interview); 7:2(80–81).
Lundström, B. Demand and technical requirements for food storage in developing countries; 7:4–5(251–256).
McOllough, P. R. Improvements in contracting practices for the Eisenhower tunnel second bore; 7:3(199–204).
Muir Wood, A. M. Technological aspects of subsurface use in developing countries; 7:4–5(310).
Muir Wood, A. M., and Jansson, B. Subsurface planning, technology, and financing; 7:4–5(308–309).
Sterling, R. L., and Nelson, S. Planning the development of underground space; 7:2(86–103).
Thomas, W. Land-use planning in the People's Republic of China; 7:1(21–23).
Wieland, D. G., and Meinholz, J. H. Risk sharing in contract management for the Milwaukee Water Pollution Abatement Program: 7:3(187–192).
Wukasch, E. Underground population defense structures in China; 7:1(16–20).

Vol.
7
1982/8

ol.
7
2/83